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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,129	09/30/2003	Jun Eui Chang	1594.1266	3827

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EXAMINER

PHAM, MINH CHAU THI

ART UNIT	PAPER NUMBER
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1724

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

10/673,129

Applicant(s)

CHANG ET AL.

Examiner

Minh-Chau T. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald (5,984,990), in view of Behl (6,319,116 B1), and Kim et al (2004/0118285 A1).

McDonald discloses an air cleaning apparatus (10) comprising a cabinet provided with a top panel (12) of a predetermined area, a blowing unit (30) installed in the cabinet, and a filtering unit (28) installed in the cabinet to remove impurities from air circulated by the blowing unit (30). Claims 1-31 differ from the disclosure of McDonald in that the blowing unit and the filtering unit are slidably insertable and removable from the cabinet. Behl discloses a filter (30) is positioned at the door of the blowing unit or fan (26) and the fan (26) with filter (30) are slidably insertable and removable from the cabinet (10). Kim et al disclose an air purifier having a multilayered filtration including filters (302, 304, 306, 308, 310, col. 2, paragraph 0021) including an electrostatic filter (306) and a metal filter (308) with two metal nets having meshes. Kim et al further disclose a filter (312) is formed with a slot (312a) and can be slidably insertable and removable from the slot (208) (see 208 in Figs. 2 and 4). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a fan slidable in and out of the cabinet as taught by Behl and a filter unit slidable in and out of the cabinet as taught by Kim et al in the air cleaning apparatus of McDonald so

that it would be easier to provide access to the fan and the filter casings for maintenance or routine check-out of the fan and filter unit.

Response to Amendment

Applicant's arguments filed on July 26, 2005 have been fully considered but they are not persuasive.

Applicant argues that the cited secondary reference Behl does not disclose a filtering unit separately slidably insertable and removable from the cabinet and the cited tertiary reference Rosen does not disclose a filter as a net or mesh. The Examiner now drops the tertiary reference Rosen and newly introduces Kim et al as the secondary reference in combination with the primary reference McDonald to show: McDonald discloses an air cleaning apparatus (10) comprising a cabinet provided with a top panel (12) of a predetermined area, a blowing unit (30) installed in the cabinet, and a filtering unit (28) installed in the cabinet to remove impurities from air circulated by the blowing unit (30). Claims 1-31 differ from the disclosure of McDonald in that the blowing unit and the filtering unit are slidably insertable and removable from the cabinet. Behl discloses a filter (30) is positioned at the door of the blowing unit or fan (26) and the fan (26) with filter (30) are slidably insertable and removable from the cabinet (10). Kim et al disclose an air purifier having a multilayered filtration including filters (302, 304, 306, 308, 310, col. 2, paragraph 0021) including an electrostatic filter (306) and a metal filter (308) with two metal nets having meshes. Kim et al further disclose a filter (312) is formed with a slot (312a) and can be slidably insertable and removable from the slot (208) (see 208 in Figs. 2 and 4), as claimed. It would have been obvious to a person

having ordinary skill in the art at the time the invention was made to provide a fan slidable in and out of the cabinet as taught by Behl and a filter unit slidable in and out of the cabinet as taught by Kim et al in the air cleaning apparatus of McDonald so that it would be easier to provide access to the fan and the filter casings for maintenance or routine check-out of the fan and filter unit.

The secondary reference Behl clearly shows that the fan unit (26) can be separately slidably insertable and removable from the cabinet. The secondary reference Kim et al clearly shows that the filtering unit (312) can be separately slidably insertable and removable from the slot (208) of the cabinet (202) (see Fig. 4). Kim et al further shows a metal filter (306 and 308) with two metal nets having meshes installed on the cabinet (see 306 & 308 in Fig. 3).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Minh-Chau Pham
Patent Examiner
Art Unit : 1724
November 10, 2005